Title (en)

CHARGING IN THE INTEGRATED SMALL CELL/WI-FI NETWORKS (ISWN)

Title (de)

VERRECHNUNG IN INTEGRIERTEN KLEINZELLIGEN/WIFI-NETZWERKEN (ISWN)

Title (fr)

FACTURATION DANS LE CADRE DES RÉSEAUX INTÉGRÉS À PETITES CELLULES ET WI-FI (ISWN)

Publication

EP 3231167 B1 20200909 (EN)

Application

EP 15819986 A 20151211

Priority

- US 201462091111 P 20141212
- US 2015065262 W 20151211

Abstract (en)

[origin: WO2016094805A1] A Policy and Charging Enforcement Function (PCEF) can be aware of whether a UE connects through a cellular or WIFI connection through a gateway. Management messages can be modified to allow the PCEF volume based online charging functionality to remain in the core network (i.e. in the P-GW/PCEF). Session management messaging between the ISWN (ISW-GW) and the core network (P-GW/PCEF) may be modified so that the core network may be notified when the ISWN moves a bearer, or flow, from one RAT to another. Alternately, PCEF volume based online charging functionality can be added to the ISWN. The PCEF of the ISWN can be tasked with performing volume based online charging while the UE is in the ISWN.

IPC 8 full level

H04M 15/00 (2006.01); **H04L 12/14** (2006.01); **H04W 4/24** (2018.01)

CPC (source: CN EP KR US)

H04L 12/1407 (2013.01 - EP KR US); **H04L 12/1467** (2013.01 - EP KR US); **H04M 15/43** (2013.01 - CN EP KR US); **H04M 15/62** (2013.01 - CN EP KR US); **H04M 15/66** (2013.01 - US); **H04M 15/8214** (2013.01 - CN EP KR US); **H04M 15/8228** (2013.01 - CN EP KR US); **H04W 4/24** (2013.01 - CN EP KR US); **H04W 16/14** (2013.01 - US); H04W 84/12 (2013.01 - US)

Citation (examination)

- WO 2014130446 A1 20140828 - INTERDIGITAL PATENT HOLDINGS [US]
- US 2015133081 A1 20150514 - GRIOT MIGUEL [US], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 2015065262 W 20151211; CN 201580073340 A 20151211; EP 15819986 A 20151211; JP 2017531322 A 20151211; KR 20177018926 A 20151211; US 201515534060 A 20151211